

LABORATORY ANALYSIS



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Department **AZUL**
Equipment No. **II APPLETON II (00062)**
System **Hydraulic System**
Oil Type **ENGINEERED LUBRICANTS ENLUBE 15-AW (--- GAL)**

DIAGNOSIS

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. Zinc (Zn) ppm levels are severely low. cSt Vis. @ 40C is severely high. Viscosity of sample indicates oil is within ISO 100 range, advise investigate. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION

Lab Number	New	2312-00035	---	---
Date of Sample	(Typical)	13 Nov 2023	---	---
Oil Added		UNK	---	---
Last Drain Date		--	---	---
Last Filter Service		--	---	---
Sample Point		---	---	---
Sample Status		SEVERE	---	---

VISCOSITY @ 100F OR 40C (ASTM D-445)

SSU Vis. @ 100F	SSU	443.6	---	---
cSt Vis. @ 40C	cSt	32.0	85.13	---

COLOR (BASED ON ASTM D1500 STANDARDS)

Color	Scale 0-8	RED	---	---
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PARTICLE COUNT (PER 1ML)

ISO CODE	ISO 4406(c)	>19/18/14	21/19/14	---	---
4 Micron & Larger	particles/ml	>5000	▲ 15,077	---	---
6 Micron & Larger	particles/ml	>2500	▲ 3,841	---	---
14 Micron & Larger	particles/ml	>160	■ 139	---	---
21 Micron & Larger	particles/ml	>40	■ 23	---	---
38 Micron & Larger	particles/ml	>10	■ 1	---	---
70 Micron & Larger	particles/ml	>3	■ 0	---	---

ICP - OILS (REPORTED IN PARTS PER MILLION)

Aluminum (Al)	ppm	<5	---	---
Antimony (Sb)	ppm	<5	---	---
Cadmium (Cd)	ppm	<5	---	---
Chromium (Cr)	ppm	<5	---	---
Cobalt (Co)	ppm	<5	---	---
Copper (Cu)	ppm	■ <5	---	---
Iron (Fe)	ppm	■ <5	---	---
Lead (Pb)	ppm	<5	---	---
Manganese (Mn)	ppm	<5	---	---
Molybdenum(Mo)	ppm	<5	---	---
Nickel (Ni)	ppm	<5	---	---
Silver (Ag)	ppm	6	---	---
Tin (Sn)	ppm	<5	---	---
Titanium (Ti)	ppm	<5	---	---
Vanadium (V)	ppm	<5	---	---
Barium (Ba)	ppm	<5	---	---
Boron (B)	ppm	<5	---	---
Calcium (Ca)	ppm	9	---	---
Magnesium (Mg)	ppm	<5	---	---
Phosphorus(P)	ppm	325	---	---
Silicon (Si)	ppm	<5	---	---
Zinc (Zn)	ppm	668	■ 96	---
Sulfur (S)	ppm	401	---	---

Customer Id: ENC0005J03
Sample No.: EN23120035
Lab Number: 23120035
Test Package: TEST



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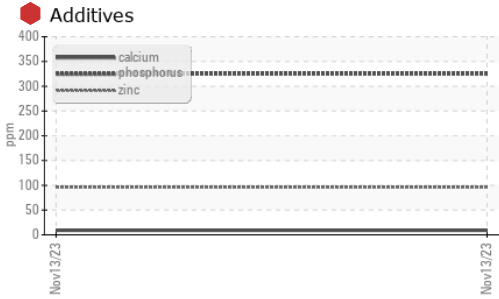
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OIL ANALYSIS REPORT



DR FERROGRAPHY READINGS

L		5.5	---	---
S		1.9	---	---
WPC	DL + DS	7.4	---	---

CONTAMINATION

Water	>0.05	NEG	---	---
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